

10644052cpgA.txt

Set	Items	Description
? e	au=krieg, ar?	
Ref	Items	Index-term
E1	1	AU=KRI EG, ANDREAS H.
E2	1	AU=KRI EG, ANJA
E3	0	* AU=KRI EG, AR?
E4	1	AU=KRI EG, ARI BERT
E5	7	AU=KRI EG, ARTHUR
E6	1	AU=KRI EG, ARTHUR F.
E7	11	AU=KRI EG, ARTHUR F.
E8	64	AU=KRI EG, ARTHUR M
E9	251	AU=KRI EG, ARTHUR M
E10	2	AU=KRI EG, B
E11	249	AU=KRI EG, B.
E12	4	AU=KRI EG, B. L.

Enter P or PAGE for more

? s e1-e12

1	AU=KRI EG, ANDREAS H.
1	AU=KRI EG, ANJA
0	AU=KRI EG, AR?
1	AU=KRI EG, ARI BERT
7	AU=KRI EG, ARTHUR
1	AU=KRI EG, ARTHUR F.
11	AU=KRI EG, ARTHUR F.
64	AU=KRI EG, ARTHUR M
251	AU=KRI EG, ARTHUR M
2	AU=KRI EG, B
249	AU=KRI EG, B.
4	AU=KRI EG, B. L.
S1	592 E1-E12

? s s1 and tcgtcgtttgcgtttgtcgtt

592	S1
2	TCGTCGTTTGCAGTTTGTCTT
S2	0 S1 AND TCGTCGTTTGCAGTTTGTCTT

? s s1 and phosphodiester

592	S1
37178	PHOSPHODI ESTER
S3	13 S1 AND PHOSPHODI ESTER

? rd

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S4 11 RD (unique items)

? t s4/3, k/1-11

>>>KWC option is not available in file(s): 399

4/3, K/1 (Item 1 from file: 98)

DI ALOG(R) File 98: General Sci Abs

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02515609 H. W. WILSON RECORD NUMBER: BGSI 93015609

Modification of antisense phosphodiester oligodeoxynucleotides by a 5' cholesterol moiety increases cellular association and improves efficacy.

Krieg, Arthur M

Tonkinson, John; Matson, Sara

10644052cpgA.txt
Proceedings of the National Academy of Sciences of the United States of America (Proc Natl Acad Sci U S A) v. 90 (Feb. 1 '93) p. 1048-52
SPECIAL FEATURES: bibliogr ISSN: 0027-8424

LANGUAGE: English

COUNTRY OF PUBLICATION: United States

Mobilization of antisense phosphodiester oligodeoxynucleotides by a 5' cholesterol moiety increases cellular association and improves efficacy.

Krieg, Arthur M

4/3, K/2 (Item 1 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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150258230 CA: 150(13) 258230u PATENT

Combination motif of immune stimulatory oligonucleotides with improved activity

INVENTOR(AUTHOR): Uhlmann, Eugen; Krieg, Arthur M; Hanson, Douglas Charles; Samulowitz, Ulrike

LOCATION: USA

ASSIGNEE: Pfizer Inc.; Colley Pharmaceutical Group, Inc.; Colley Pharmaceutical GmbH.

PATENT: PCT International; WO 200922215 A1 DATE: 20090219

APPLICATION: WO 20081B2102 (20080805) *US 2007PV964477 (20070813)

PAGES: 73pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

I PCR/8 + Level Value Position Status Version Action Source Office:

A61K-0031/7088 A I F B 20060101 H EP

C12N-0015/11 A I L B 20060101 H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BR;
BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES;
FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN;
KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX;
MM; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG;
SK; SL; SM; ST; SV; SY; TJ; TM; TN; TR DESIGNATED REGIONAL: AT; BE; BG; CH;
CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LT; LU; LV;
MC; MT; NL; NO; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN;
GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ;
TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

4/3, K/3 (Item 2 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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145291047 CA: 145(15) 291047 PATENT

Immuno-stimulatory oligonucleotides with stabilized inter nucleotide linkage for treating cancer, allergy, asthma and infection

INVENTOR(AUTHOR): Krieg, Arthur M; Samulowitz, Ulrike; Vollmer, Joerg
LOCATION: USA

ASSIGNEE: Colley Pharmaceutical Group, Inc.; Colley Pharmaceutical GmbH

PATENT: PCT International; WO 200691915 A2 DATE: 20060831

APPLICATION: WO 2006US6778 (20060224) *US 2005PV655931 (20050224)

PAGES: 93pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-000/ A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;
BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;
GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LC; LK;
LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NG; NI; NO; NZ;
OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ; TM; TN; TR;

10644052cpgA.txt
TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA DESIGNATED REGIONAL: AT; BE; BG; CH;
CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;
NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML;
MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM;
ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

4/3, K/4 (Item 3 from file: 399)
DI ALCG(R) File 399: CA SEARCH(R)
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142462266 CA: 142(25)462266z PATENT
CpG immunostimulatory nucleic acids and oligonucleotides analogs for enhancing immune response of vaccines against infection, allergy and cancer
INVENTOR(AUTHOR): Uhlmann, Eugen; Vollmer, Joerg; Krieg, Arthur M.; Noll, Bernhard O.
LOCATION: Germany
ASSIGNEE: Coley Pharmaceutical Group, Inc.
PATENT: PCT International; WO 200542018 A2 DATE: 20050512
APPLICATION: WO 2004US36240 (20041029) *US 2003PV516193 (20031030)
PAGES: 113 pp. CODEN: PI XXXD2 LANGUAGE: English
PATENT CLASSIFICATIONS:
CLASS: A61K-039/39A; A61P-031/00B; A61P-037/08B; A61P-035/00B
DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;
BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;
GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS;
LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL;
PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US;
UZ; VC; VN; YU; ZA; ZW DESIGNATED REGIONAL: BW; GH; GM; KE; LS; MW; MZ;
NA; SD; SL; SZ; TZ; UG; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT;
BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;
PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR;
NE; SN; TD; TG

4/3, K/5 (Item 4 from file: 399)
DI ALCG(R) File 399: CA SEARCH(R)
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142372464 CA: 142(20)372464h PATENT
Compositions comprising immunostimulatory nucleic acid-lipopophilic conjugates and antigen or therapeutic agent for treating allergy, cancer, infection and autoimmune disease
INVENTOR(AUTHOR): Vollmer, Joerg; Krieg, Arthur M.; Uhlmann, Eugen
LOCATION: USA
ASSIGNEE: Coley Pharmaceutical Group, Inc.; Coley Pharmaceutical GmbH
PATENT: PCT International; WO 200530259 A2 DATE: 20050407
APPLICATION: WO 2004US31748 (20040927) *US 2003PV505977 (20030925)
PAGES: 120 pp. CODEN: PI XXXD2 LANGUAGE: English
PATENT CLASSIFICATIONS:
CLASS: A61K-047/48A
DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;
BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;
GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS;
LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL;
PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US;
UZ; VC; VN; YU; ZA; ZW DESIGNATED REGIONAL: BW; GH; GM; KE; LS; MW; MZ;
NA; SD; SL; SZ; TZ; UG; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT;
BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;
PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR;
NE; SN; TD; TG

4/3, K/6 (Item 5 from file: 399)
DI ALOG(R) File 399: CA SEARCH(R)
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140230578 CA: 140(15)230578h PATENT
Sequences of immunostimulatory oligonucleotides and therapeutic use for immune related diseases
INVENTOR(AUTHOR): Krieg, Arthur M; Samulowitz, Urike; Vollmer, Jorg; Uhlmann, Eugen; Jurk, Marion; Lippford, Grayson; Rankin, Robert
LOCATION: USA
ASSIGNEE: Coley Pharmaceutical Group, Inc.; Coley Pharmaceutical GmbH
PATENT: PCT International ; WO 200416805 A2 DATE: 20040226
APPLICATION: WO 2003US25935 (20030819) * US PV404479 (20020819) * US PV404820 (20020819) * US PV429701 (20021127) * US PV447377 (20030214)
PAGES: 276 pp. CODEN: PI XXXD2 LANGUAGE: English
PATENT CLASSIFICATIONS:
CLASS: C12Q 000/ A
DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;
SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; UZ; VC; VN; YU;
ZA; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE
; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK;
EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;
BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

4/3, K/7 (Item 6 from file: 399)
DI ALOG(R) File 399: CA SEARCH(R)
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138203655 CA: 138(14)203655h PATENT
Oligonucleotides containing stimulatory phosphorothioate motif and neutralizing motif for treating infections, allergies and cancers
INVENTOR(AUTHOR): Krieg, Arthur M; Vollmer, Jorg; Uhlmann, Eugen
LOCATION: USA
ASSIGNEE: Coley Pharmaceutical Group, Inc.; Coley Pharmaceutical GmbH
; University of Iowa Research Foundation
PATENT: PCT International ; WO 200315711 A2 DATE: 20030227
APPLICATION: WO 2002US26468 (20020819) * US PV313273 (20010817) * US
PV393952 (20020703)
PAGES: 115 pp. CODEN: PI XXXD2 LANGUAGE: English
PATENT CLASSIFICATIONS:
CLASS: A61K- 000/ A
DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; OM; PH; PL; PT; RO; RU; SD; SE;
SG; SI; SK; SL; TJ; TM; TN; TR; TT; TZ; UA; UG; UZ; VN; YU; ZA; ZW AM; AZ;
BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD
; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR;
GB; GR; IE; IT; LU; MC; NL; PT; SE; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN;
GQ; GW; ML; MR; NE; SN; TD; TG

4/3, K/8 (Item 7 from file: 399)
DI ALOG(R) File 399: CA SEARCH(R)
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135018544 CA: 135(2)18544w PATENT
Immunostimulatory nucleic acid molecules

10644052cpgA.txt
INVENTOR(AUTHOR): Krieg, Arthur M; Kline, Joel N.
LOCATION: USA
ASSIGNEE: University of Iowa Research Foundation; Coley Pharmaceutical Group, Inc.; United States Dept. of Health and Human Services
PATENT: United States ; US 6239116 B1 DATE: 20010529
APPLICATION: US 960774 (19971030) *US 738652 (19961030)
PAGES: 74 pp., Cont.-in-part of U.S. Ser. No. 738,652. CODEN: USXXAM
LANGUAGE: English
PATENT CLASSIFICATIONS:
CLASS: 514044000; A61P-037/06A

4/3, K/9 (Item 8 from file: 399)
DIALOG(R) File 399: CA SEARCH(R)
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133349133 CA: 133(25) 349133e PATENT
Screening for immunostimulatory DNA functional modifiers
INVENTOR(AUTHOR): Noll, Berhard O; Schetter, Christian; Krieg, Arthur M
LOCATION: Germany
ASSIGNEE: CPG Immunopharmaceuticals GmbH; University of Iowa Research Foundation
PATENT: PCT International ; WO 200067023 A1 DATE: 20001109
APPLICATION: WO 2000US11697 (20000428) *US PV131830 (19990429) *US PV186845 (20000303)
PAGES: 95 pp. CODEN: PI XXD2 LANGUAGE: English
PATENT CLASSIFICATIONS:
CLASS: G01N-033/50A; G01N-033/68B; C12Q-001/68B; C07K-014/47B
DESIGNATED COUNTRIES: AE; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA; CH;
CN; CR; CU; CZ; DE; DK; DM; DZ; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID;
IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG;
MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR;
TT; TZ; UA; UG; UZ; VN; YU; ZA; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM
DESIGNATED REGIONAL: GH; GM; KE; LS; MW; SD; SL; SZ; TZ; UG; ZW AT; BE;
CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF;
CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG

4/3, K/10 (Item 9 from file: 399)
DIALOG(R) File 399: CA SEARCH(R)
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123274918 CA: 123(21) 274918x CONFERENCE PROCEEDINGS
Uptake and localization of phosphodiester and chimeric
oligonodeoxynucleotides in normal and leukemic primary cells
AUTHOR(S): Krieg, Arthur M
LOCATION: Department Internal Medicine, University Iowa, Iowa, IA, USA
JOURNAL: Delivery Strategies Antisense Oligonucleotide Ther. EDITOR:
Akhtar, Saghir (Ed), DATE: 1995 PAGES: 177-90 CODEN: 61RXAX LANGUAGE:
English PUBLISHER: CRC, Boca Raton, FL

4/3, K/11 (Item 10 from file: 399)
DIALOG(R) File 399: CA SEARCH(R)
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119173523 CA: 119(17) 173523b JOURNAL
Comparison of cellular binding and uptake of antisense phosphodiester,
phosphorothioate, and mixed phosphorothioate and methyl phosphonate
oligonucleotides
AUTHOR(S): Zhao, Quyan; Matson, Sara; Herrera, Charles J.; Fisher, Eric;
Yu, Hong; Krieg, Arthur M
LOCATION: Coll. Med., Univ. Iowa, Iowa City, IA, USA

10644052cpgA.txt
JOURNAL: Antisense Res. Dev. DATE: 1993 VOLUME: 3 NUMBER: 1 PAGES:
53-66 CODEN: AREDEI ISSN: 1050-5261 LANGUAGE: English
? ds

Set Items Description
S1 592 E1-E12
S2 0 S1 AND TCGTCGTTTGACGTTTGTGTT
S3 13 S1 AND PHOSPHODIESTER
S4 11 RD (unique items)
? e au=samulowitz, urrike?

Ref Items Index-term
E1 4 AU=SAMULOW TZ, U
E2 25 AU=SAMULOW TZ, ULRIKE
E3 0 * AU=SAMULOW TZ, URI KE?
E4 1 AU=SAMULOWSKA, BARBARA
E5 2 AU=SAMULOWSKI, W
E6 1 AU=SAMULS S
E7 1 AU=SAMULSEN, DM
E8 3 AU=SAMULSKA EWA
E9 2 AU=SAMULSKA H
E10 2 AU=SAMULSKA H M
E11 2 AU=SAMULSKA HANNA
E12 2 AU=SAMULSKA J

Enter P or PAGE for more
? e au=samulowitz, ulrik?

Ref Items Index-term
E1 1 AU=SAMULOW TZ, MICHAEL
E2 4 AU=SAMULOW TZ, U
E3 0 * AU=SAMULOW TZ, ULRIKE?
E4 25 AU=SAMULOW TZ, ULRIKE
E5 1 AU=SAMULOWSKA, BARBARA
E6 2 AU=SAMULOWSKI, W
E7 1 AU=SAMULS S
E8 1 AU=SAMULSEN, DM
E9 3 AU=SAMULSKA EWA
E10 2 AU=SAMULSKA H
E11 2 AU=SAMULSKA H M
E12 2 AU=SAMULSKA HANNA

Enter P or PAGE for more
?
? s e4
S5 25 AU=SAMULOW TZ, ULRIKE
? s ss5 and phosphodiester
25 S5
37178 PHOSPHODIESTER
S6 3 S5 AND PHOSPHODIESTER
? rd

>>>Duplicate detection is not supported for File 393.
>>>Duplicate detection is not supported for File 391.
>>>Records from unsupported files will be retained in the RD set.
S7 3 RD (unique items)
? t s7/3, k/1-3
>>>KWC option is not available in file(s): 399

7/3, K/1 (Item 1 from file: 399)
DI ALCG(R) File 399: CA SEARCH(R)

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150258230 CA: 150(13)258230U PATENT

Combination motif immunostimulatory oligonucleotides with improved activity

INVENTOR(AUTHOR): Uhlmann, Eugen; Krieg, Arthur M.; Hanson, Douglas Charles; Samulowitz, Ulrike

LOCATION: USA

ASSIGNEE: Pfizer Inc.; Colley Pharmaceutical Group, Inc.; Colley Pharmaceutical GmbH.

PATENT: PCT International ; WO 200922215 A1 DATE: 20090219

APPLICATION: WO 20081B2102 (20080805) *US 2007PV964477 (20070813)

PAGES: 73pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

IPC/8 + Level Value Position Status Version Action Source Office:

A61K-0031/7088 A I F B 20060101 H EP
C12N-0015/11 A I L B 20060101 H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BR;
 BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES;
 FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN;
 KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX;
 MY; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG;
 SK; SL; SM; ST; SV; SY; TJ; TM; TN; TR DESIGNATED REGIONAL: AT; BE; BG; CH;
 CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LT; LU; LV;
 MC; MT; NL; NO; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN;
 GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ;
 TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

7/3, K/2 (Item 2 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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145291047 CA: 145(15)291047J PATENT

Immunostimulatory oligonucleotides with stabilized internucleotide linkage for treating cancer, allergy, asthma and infection

INVENTOR(AUTHOR): Krieg, Arthur M.; Samulowitz, Ulrike; Vollmer, Joerg
LOCATION: USA

ASSIGNEE: Colley Pharmaceutical Group, Inc.; Colley Pharmaceutical GmbH

PATENT: PCT International ; WO 200691915 A2 DATE: 20060831

APPLICATION: WO 2006US6778 (20060224) *US 2005PV655931 (20050224)

PAGES: 93pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-000/A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;
 BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;
 GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LC; LK;
 LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NG; NI; NO; NZ;
 OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ; TM; TN; TR;
 TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA DESIGNATED REGIONAL: AT; BE; BG; CH;
 CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;
 NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML;
 MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM;
 ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

7/3, K/3 (Item 3 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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140230578 CA: 140(15)230578H PATENT

Sequences of immunostimulatory oligonucleotides and therapeutic use for immune related diseases

10644052cpgA.txt

INVENTOR(AUTHOR): Krieg, Arthur M; Samulowitz, Ulrike; Vollmer, Joerg;
Uhlmann, Eugen; Jurk, Marion; Lippford, Grayson; Rankin, Robert
LOCATION: USA

ASSIGNEE: Colley Pharmaceutical Group, Inc.; Colley Pharmaceutical GmbH

PATENT: PCT International; WO 200416805 A2 DATE: 20040226

APPLICATION: WO 2003US25935 (20030819) * US PV404479 (20020819) * US
PV404820 (20020819) * US PV429701 (20021127) * US PV447377 (20030214)

PAGES: 276 pp. CODEN: PI XXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: C12Q 000/00

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;
SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; UZ; VC; VN; YU;
ZA; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE
; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK;
EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;
BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

? e au=vollmer, j ?

Ref Items Index-term

E1	1	AU=VOLLMER, J*
E2	1	AU=VOLLMER, J- Y
E3	0	* AU=VOLLMER, J?
E4	1	AU=VOLLMER, JAMES
E5	6	AU=VOLLMER, JAMES M
E6	16	AU=VOLLMER, JAMES M
E7	2	AU=VOLLMER, JAMES M CHAEL
E8	1	AU=VOLLMER, JANICE
E9	1	AU=VOLLMER, JANS JUERGEN
E10	2	AU=VOLLMER, JASON
E11	1	AU=VOLLMER, JEAN P.
E12	3	AU=VOLLMER, JEAN PIERRE

Enter P or PAGE for more

? e au=vollmer, j org

Ref Items Index-term

E1	1	AU=VOLLMER, JOHN JOCHEN
E2	8	AU=VOLLMER, JOHN W
E3	24	* AU=VOLLMER, JORG
E4	1	AU=VOLLMER, JORG HEINZ
E5	1	AU=VOLLMER, JOSEPH
E6	2	AU=VOLLMER, JOSEPH G
E7	2	AU=VOLLMER, JOSEPH GERARD
E8	1	AU=VOLLMER, JOSEPH H.
E9	1	AU=VOLLMER, JOSEPH HARRY
E10	3	AU=VOLLMER, JR., H. D.
E11	3	AU=VOLLMER, JUDITH
E12	15	AU=VOLLMER, JUERGEN

Enter P or PAGE for more

? s e3- e4

24	AU=VOLLMER, JORG
1	AU=VOLLMER, JORG HEINZ

S8 25 E3- E4

? s s8 and phosphodiester

25 S8

37178 PHOSPHODI ESTER

S9 1 S8 AND PHOSPHODI ESTER

? rd

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>>>Duplicate detection is not supported for File 391.
>>>Records from unsupported files will be retained in the RD set.
S10 1 RD (unique items)
? t s10/3, k/1
>>>KWC option is not available in file(s): 399

10/3, K/1 (Item 1 from file: 399)
DI ALCG(R) File 399: CA SEARCH(R)
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138203655 CA: 138(14)203655h PATENT
Aigonucleotides containing stimulatory phosphorothioate motif and
neutralizing motif for treating infections, allergies and cancers
INVENTOR(AUTHOR): Krieg, Arthur M.; Vollmer, Jorg; Uhlmann, Eugen
LOCATION: USA
ASSIGNEE: Colley Pharmaceutical Group, Inc.; Colley Pharmaceutical GmbH.
; University of Iowa Research Foundation
PATENT: PCT International ; WO 200315711 A2 DATE: 20030227
APPLICATION: WO 2002US26468 (20020819) *US PV313273 (20010817) *US
PV393952 (20020703)
PAGES: 115 pp. CODEN: PI XXD2 LANGUAGE: English
PATENT CLASSIFICATIONS:
CLASS: A61K-000/A
DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; OM; PH; PL; PT; RO; RU; SD; SE;
SG; SI; SK; SL; TJ; TM; TN; TR; TT; TZ; UA; UG; UZ; VN; YU; ZA; ZW; AM; AZ;
BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD
; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR;
GB; GR; IE; IT; LU; MC; NL; PT; SE; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN;
GQ; GW; ML; MR; NE; SN; TD; TG
? e au=uhlmann, eugen?

Ref	Items	Index-term
E1	565	AU=UHLMANN, EUGEN
E2	2	AU=UHLMANN, EUGEN DR
E3	0	*AU=UHLMANN, EUGEN?
E4	1	AU=UHLMANN, EUGENE
E5	3	AU=UHLMANN, EUGENIE V
E6	8	AU=UHLMANN, EUGENIE V.
E7	2	AU=UHLMANN, EUGENIE VI CTORIA
E8	32	AU=UHLMANN, F
E9	8	AU=UHLMANN, F H
E10	2	AU=UHLMANN, F HERMANN
E11	114	AU=UHLMANN, F.
E12	3	AU=UHLMANN, F. H

Enter P or PAGE for more

? s e1-e3
565 AU=UHLMANN, EUGEN
2 AU=UHLMANN, EUGEN DR
0 AU=UHLMANN, EUGEN?
S11 567 E1-E3
? s s11 and phosphodiester
567 S11
37178 PHOSPHODI ESTER
S12 8 S11 AND PHOSPHODI ESTER
? rd

10644052cpgA.txt
>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.
S13 8 RD (unique items)

? t s13/3, k/1-8

>>>KWC option is not available in file(s): 399

13/3, K/1 (Item 1 from file: 393)
DIALOG(R) File 393: Beilstein Database - Abstracts
(c) 2008 Beilstein GmbH. All rights reserved.

Beilstein Abstract Id: 6219964

Title: Influence of the Type of Junction in DNA-3'-Peptide Nucleic Acid (PNA) Chimeras on Their Binding Affinity to DNA and RNA

Document Type: Journal Record Type: Abstract

Author: Greiner, Beate; Breipohl, Gerhard; Uhlmann, Eugen

Publication: Helvetica Chimica Acta (1999) Series: 82-12, 2151 - 2159 CODEN: HCACAV

Language: English

Abstract Language: English

Author: Greiner, Beate; Breipohl, Gerhard; Uhlmann, Eugen

... Abstract: duplex stabilization was determined to be in the order O-S-C(=O)-NH, reordering the phosphodiester bridge the most favored linkage at the DNA/PNA junction. The observed strong duplex destabilizing...

13/3, K/2 (Item 2 from file: 393)
DIALOG(R) File 393: Beilstein Database - Abstracts
(c) 2008 Beilstein GmbH. All rights reserved.

Beilstein Abstract Id: 5780737

Title: Nucleotide XV. Synthesis and Properties of 2'-O-t-Butylidemethylsilyl-5'-O-monomethoxytritylribonucleoside-3'-phosphotriesters, Ausgangssubstanzen fuer Oligonucleotide-Synthesen

Document Type: Journal Record Type: Abstract

Author: Silber, Gunter; Flöckerz, Dieter; Varma, Rajendra Singh; Charubala, Ramamurthy; Uhlmann, Eugen; Pfeiderer, Wolfgang

Publication: Helvetica Chimica Acta (1981) Series: 64-5, 1704-1716 CODEN: HCACAV

Language: German

Abstract Language: English

Author: Silber, Gunter; Flöckerz, Dieter; Varma, Rajendra Singh; Charubala, Ramamurthy; Uhlmann, Eugen; Pfeiderer, Wolfgang

... Abstract: 15-23 with free HO-C(5') could be obtained by detritylation and the 3'-phosphodiester triethylsilyl ammonium salts 24-32 by deblocking of the cyanoethyl and the 2,5-dichlorophenyl group

...

13/3, K/3 (Item 1 from file: 399)
DIALOG(R) File 399: CA SEARCH(R)
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150258230 CA: 150(13) 258230u PATENT

Combination motif immune stimulatory oligonucleotides with improved activity

INVENTOR(AUTHOR): Uhlmann, Eugen; Krieg, Arthur M.; Hanson, Douglas

10644052cpgA.txt

Charles; Samuelowitz, Ulrike

LOCATION: USA

ASSIGNEE: Pfizer Inc.; Colley Pharmaceutical Group, Inc.; Colley Pharmaceutical GmbH.

PATENT: PCT International ; WO 200922215 A1 DATE: 20090219

APPLICATION: WO 20081B2102 (20080805) *US 2007PV964477 (20070813)

PAGES: 73pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

I PCR/8 + Level Value Position Status Version Action Source Office:

A61K-0031/7088 A I F B 20060101

H EP

C12N-0015/11 A I L B 20060101

H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BR;
 BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES;
 FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN;
 KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX;
 MY; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG;
 SK; SL; SM; ST; SV; SY; TJ; TM; TN; TR DESIGNATED REGIONAL: AT; BE; BG; CH;
 CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LT; LU; LV;
 MC; MT; NL; NO; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN;
 GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ;
 TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

13/3, K/4 (Item 2 from file: 399)

DI ALCG(R) File 399: CA SEARCH(R)

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150001273 CA: 150(1)1273u PATENT

PCR sequences of oligoribonucleotides for disease treatment

INVENTOR(AUTHOR): Vollmer, Joerg; Uhlmann, Eugen

LOCATION: Germany

ASSIGNEE: Colley Pharmaceutical GmbH.

PATENT: PCT International ; WO 2008139262 A2 DATE: 20081120

APPLICATION: WO 20071B4593 (20071026) *US 2006PV854585 (20061026)

PAGES: 110pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

I PCR/8 + Level Value Position Status Version Action Source Office:

C12N-0015/11 A I F B 20060101

H EP

A61K-0031/7088 A I L B 20060101

H EP

C07H-0021/02 A I L B 20060101

H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BH; BR; BW;
 BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES; FI;
 GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP;
 KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX;
 MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK;
 SL; SM; SV; SY; TJ; TM; TN; TR; TZ DESIGNATED REGIONAL: AT; BE; BG; CH;
 CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LT; LU; LV; MC;
 MT; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
 ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG;
 ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

13/3, K/5 (Item 3 from file: 399)

DI ALCG(R) File 399: CA SEARCH(R)

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142462266 CA: 142(25)462266z PATENT

OpiG immunostimulatory nucleic acids and oligonucleotide analogs for enhancing immune response of vaccines against infection, allergy and cancer

INVENTOR(AUTHOR): Uhlmann, Eugen; Vollmer, Joerg; Krieg, Arthur M; Noll, Bernhard O.

LOCATION: Germany,

ASSIGNEE: Colley Pharmaceutical GmbH, Colley Pharmaceutical Group, Inc.

PATENT: PCT International; WO 200542018 A2 DATE: 20050512

APPLICATION: WO 2004US36240 (20041029) *US 2003PV516193 (20031030)

PAGES: 113 pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/39A; A61P-031/00B; A61P-037/08B; A61P-035/00B

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;
 BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;
 GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS;
 LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL;
 PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US;
 UZ; VC; VN; YU; ZA; ZM; ZW DESIGNATED REGIONAL: BW; GH; GM; KE; LS; MW; MZ
 ; NA; SD; SL; SZ; TZ; UG; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT;
 BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;
 PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR;
 NE; SN; TD; TG

13/3, K/6 (Item 4 from file: 399)

DI ALCG(R) File 399: CA SEARCH(R)

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142372464 CA: 142(20)372464h PATENT

Compositions comprising immunostimulatory nucleic acid-lipopophilic conjugates and antigen or therapeutic agent for treating allergy, cancer, infection and autoimmune disease

INVENTOR(AUTHOR): Vollmer, Joerg; Krieg, Arthur M.; Uhlmann, Eugen
LOCATION: USA

ASSIGNEE: Colley Pharmaceutical Group, Inc.; Colley Pharmaceutical GmbH

PATENT: PCT International; WO 200530259 A2 DATE: 20050407

APPLICATION: WO 2004US31748 (20040927) *US 2003PV505977 (20030925)

PAGES: 120 pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-047/48A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;
 BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;
 GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS;
 LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL;
 PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US;
 UZ; VC; VN; YU; ZA; ZM; ZW DESIGNATED REGIONAL: BW; GH; GM; KE; LS; MW; MZ
 ; NA; SD; SL; SZ; TZ; UG; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT;
 BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;
 PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR;
 NE; SN; TD; TG

13/3, K/7 (Item 5 from file: 399)

DI ALCG(R) File 399: CA SEARCH(R)

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140230578 CA: 140(15)230578h PATENT

Sequences of immunostimulatory oligonucleotides and therapeutic use for immune related diseases

INVENTOR(AUTHOR): Krieg, Arthur M.; Samulowitz, Ulrike; Vollmer, Joerg;
 Uhlmann, Eugen; Jurk, Marion; Lippford, Grayson; Rankin, Robert
LOCATION: USA

ASSIGNEE: Colley Pharmaceutical Group, Inc.; Colley Pharmaceutical GmbH

PATENT: PCT International; WO 200416805 A2 DATE: 20040226

APPLICATION: WO 2003US25935 (20030819) *US PV404479 (20020819) *US

PV404820 (20020819) *US PV429701 (20021127) *US PV447377 (20030214)

PAGES: 276 pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: C12Q 000/A

10644052cpgA.txt
DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;
SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; UZ; VC; VN; YU;
ZA; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE
; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK;
EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;
BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

13/3, K/8 (Item 6 from file: 399)
DI ALCG(R) File 399: CA SEARCH(R)
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93114908 CA: 93(11)114908c JOURNAL
New improvements in oligonucleotide synthesis by use of the
p-nitrophenyl ester phosphate blocking group and its deprotection by DBU
or DBN
AUTHOR(S): Uhlmann, Eugen; Pfeiderer, Wolfgang
LOCATION: Fac. Chem., Univ. Konstanz, D-7750, Konstanz, Fed. Rep. Ger.
JOURNAL: Tetrahedron Lett. DATE: 1980 VOLUME: 21 NUMBER: 13 PAGES:
1181-4 CODEN: TELEAY ISSN: 0040-4039 LANGUAGE: English
? eau=lipoford, gr?

Ref	Items	Index-term
E1	44	AU=LI PFORD, GB
E2	3	AU=LI PFORD, GB*
E3	0	* AU=LI PFORD, GR?
E4	22	AU=LI PFORD, GRAYSON
E5	8	AU=LI PFORD, GRAYSON B
E6	63	AU=LI PFORD, GRAYSON B.
E7	2	AU=LI PFORD, GRAYSON BERNARD
E8	2	AU=LI PFORD, HEATHER
E9	1	AU=LI PFORD, HEATHER RICHTER
E10	3	AU=LI PFORD, J
E11	3	AU=LI PFORD, J.
E12	11	AU=LI PFORD, J. R.

? s e1-e6 Enter P or PAGE for more

44	AU=LI PFORD, GB
3	AU=LI PFORD, GB*
0	AU=LI PFORD, GR?
22	AU=LI PFORD, GRAYSON
8	AU=LI PFORD, GRAYSON B
63	AU=LI PFORD, GRAYSON B.
S14	140 E1-E6
? s s14 and phosphodiester	
140	S14
37178	PHOSPHODIESTER
S15	2 S14 AND PHOSPHODIESTER

? rd

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.
S16 2 RD (unique items)

? t s16/3, k/1-2

>>>KWC option is not available in file(s): 399

10644052cpgA.txt
16/3, K/1 (Item 1 from file: 24)
DI ALCG(R) File 24: CSA Life Sciences Abstracts
(c) 2009 CSA. All rights reserved.

0002855016 IP ACCESSION NO: 6931820
Toll-like receptor 9 binds single-stranded CpG-DNA in a sequence- and pH-dependent manner

Rutz, Mark; Metzger, Jochen; Gellert, Tanja; Luppa, Peter; Lipford, Grayson B; Wagner, Hermann; Bauer, Stefan
Institute for Medical Microbiology, Hygiene and Immunology, Munich, Germany, [mailto:stefan.bauer@rz.tum.de]

European Journal of Immunology, v 34, n 9, p 2541-2550, 2004
PUBLICATION DATE: 2004

PUBLISHER: Wiley-VCH, Postfach 101161 Weinheim 69451 Germany,
[mailto:info@wiley-vch.de], [URL: http://www.wiley-vch.de/publications/]

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ISSN: 0014-2980

FILE SEGMENT: Immunology Abstracts

Rutz, Mark; Metzger, Jochen; Gellert, Tanja; Luppa, Peter; Lipford, Grayson B; Wagner, Hermann; Bauer, Stefan

ABSTRACT:

... that TLR9 binds directly and sequence-specifically to single-stranded unmethylated CpG-DNA containing a phosphodiester backbone. TLR9-CpG-DNA interaction occurs at the acidic pH (6.5-5.0) found...

16/3, K/2 (Item 1 from file: 399)

DI ALCG(R) File 399: CA SEARCH(R)
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140230578 CA: 140(15)230578h PATENT

Sequences of immunostimulatory oligonucleotides and therapeutic use for immune related diseases
INVENTOR(AUTHOR): Krieg, Arthur M; Samulowitz, Ulrike; Vollmer, Joerg; Uhlmann, Eugen; Jurk, Marion; Lipford, Grayson; Rankin, Robert

LOCATION: USA

ASSIGNEE: Coley Pharmaceutical Group, Inc.; Coley Pharmaceutical GmbH
PATENT: PCT International; WO 200416805 A2 DATE: 20040226

APPLICATION: WO 2003US25935 (20030819) * US PV404479 (20020819) * US PV404820 (20020819) * US PV429701 (20021127) * US PV447377 (20030214)

PAGES: 276 pp. CODEN: PI XXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: C12Q 000/A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;
SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; UZ; VC; VN; YU;
ZA; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONS: GH; GM; KE
; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK;
EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;
BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG
? e au=rankin, rob?

10644052cpgA.txt

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E2	2	AU=RANKI N, RN*
E3	0	* AU=RANKI N, ROB?
E4	1	AU=RANKI N, ROBB E.
E5	23	AU=RANKI N, ROBERT
E6	4	AU=RANKI N, ROBERT A
E7	5	AU=RANKI N, ROBERT A.
E8	1	AU=RANKI N, ROBERT C.
E9	1	AU=RANKI N, ROBERT CARTER
E10	1	AU=RANKI N, ROBERT EDWARD
E11	1	AU=RANKI N, ROBERT JOHN, JR.
E12	8	AU=RANKI N, ROBERT L.

Enter P or PAGE for more

? s e1-e12

7	AU=RANKI N, RN
2	AU=RANKI N, RN*
0	AU=RANKI N, ROB?
1	AU=RANKI N, ROBB E.
23	AU=RANKI N, ROBERT
4	AU=RANKI N, ROBERT A
5	AU=RANKI N, ROBERT A.
1	AU=RANKI N, ROBERT C.
1	AU=RANKI N, ROBERT CARTER
1	AU=RANKI N, ROBERT EDWARD
1	AU=RANKI N, ROBERT JOHN, JR.
8	AU=RANKI N, ROBERT L.

S17 54 E1- E12

? rd

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S18 46 RD (unique items)

? s s18 and phosphodiester

46 S18
37178 PHOSPHODI ESTER

S19 1 S18 AND PHOSPHODI ESTER

? rd

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S20 1 RD (unique items)

? t s20/ 3, k/ 1

>>>KWC option is not available in file(s): 399

20/ 3, K/ 1 (Item 1 from file: 399)

DI ALCG(R) Fi le 399: CA SEARCH(R)

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140230578 CA: 140(15)230578h PATENT

Sequences of immunostimulatory oligonucleotides and therapeutic use for immune related diseases

INVENTOR(AUTHOR): Krieg, Arthur M.; Samulowitz, Urike; Vollmer, Joerg; Uhlmann, Eugen; Jurk, Marion; Lipford, Grayson; Rankin, Robert

LOCATION: USA

ASSIGNEE: Coley Pharmaceutical Group, Inc.; Coley Pharmaceutical GmbH

10644052cpgA.txt
PATENT: PCT International ; WO 200416805 A2 DATE: 20040226
APPLICATI ON: WO 2003US25935 (20030819) * US PV404479 (20020819) * US
PV404820 (20020819) * US PV429701 (20021127) * US PV447377 (20030214)
PAGES: 276 pp. CODEN: PI XXD2 LANGUAGE: English

PATENT CLASSIFI CATIONS:

CLASS: C12Q 000/A
DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;
SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; UZ; VC; VN; YU;
ZA; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE;
; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK;
EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;

Set Items Description

? e au=krieg, a?

Ref	Items	Index-term
E1	5	AU=KRI EG, A. H.
E2	7	AU=KRI EG, A. M
E3	0	* AU=KRI EG, A?
E4	5	AU=KRI EG, ADAM J
E5	11	AU=KRI EG, ADAM J.
E6	2	AU=KRI EG, ADAM JEREMY
E7	1	AU=KRI EG, ADRI AN
E8	2	AU=KRI EG, ADRI AN H
E9	2	AU=KRI EG, AF
E10	3	AU=KRI EG, AH
E11	1	AU=KRI EG, AJ
E12	18	AU=KRI EG, ALEXANDER

Enter P or PAGE for more

? s e2 S1 7 AU=' KRI EG, A. M '

? rd

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S2 5 RD (unique items)

? t s2/3, k/1-5

>>>KWC option is not available in file(s): 399

2/3, K 1 (Item 1 from file: 103)
DI ALO(G R) Fi le 103: ENERGY SCI TEC
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07772558 OSTI ; SCA 550400; 550900; 550700; 550300; PA- EDB- 96- 040383; SN
96001541589; TVL 96008

Title: CpG DNA: A pathogenic factor in systemic lupus erythematosus?

Author(s): Krieg, A. M [Univ. of Iowa College of Medicine, Iowa
City, IA (United States)]

Journal Name: Journal of Clinical Immunology

Source: Journal Name: Journal of Clinical Immunology; Journal Volume: 15;
Journal Issue: 6; Other Information: PBD: Nov 1995 ISSN: 0271-9142

Publication Date: 19951101

Availability Date: 20091216

OSTI Number(s): OSTI ID 182167

Contract Number (Non-DOE): Journal ID JCLMDO; Other CNN Grant

10644052cpgA.txt
R29- AR42556-01; TRN TRN 96000734-0001
Language: English
Medium Dimensions: Medium X; Size: pp. 284-292

Author(s): Krieg, A.M. [University of Iowa College of Medicine, Iowa City, IA (United States)]

2/3, K/2 (Item 2 from file: 103)
DIALOG(R) File 103: ENERGY SCI TEC
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07552420 NLM NLM 91-01863; EDB-91-095904
Title: Association of murine lupus and thymic ful-length endogenous retroviral expression maps to a bone marrow stem cell

Author(s): Krieg, A.M.; Gourley, M.F.; Steinberg, A.D. (National Institutes of Health, Bethesda, MD (USA))

Sponsoring Organization: Not Available

Journal Name: Journal of Immunology

Source: Journal Name: Journal of Immunology; (USA); Journal Volume: 146:9
Coden: JOMA ISSN: 0022-1767

Publication Date: 19910501

Availability Date: 20091216

OSTI Number(s): OSTI ID 5760970

Contract Number (DOE): None

Language: English

Medium Dimensions: Medium X; Size: Pages: 3002-5

Author(s): Krieg, A.M..

2/3, K/3 (Item 1 from file: 8)
DIALOG(R) File 8: EI Compendex(R)
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1209947422 E.I. COMPENDEX No: 20091111956701
Immunotherapy applications of CpG oligodeoxynucleotide TLR9 agonists
Volmer, Jorg; Krieg, Arthur M
Corresp. Author/Affil: Krieg, A.M.: Pfizer Inc., 620 Memorial Drive, Cambridge, MA 02139, United States
Corresp. Author Email: arthur.krieg@pfizer.com
Advanced Drug Delivery Reviews (Adv. Drug Deliv. Rev.) (Netherlands)
2009, 61/3 (195-204)

Publication Date: 20090328

Publisher: Elsevier

CODEN: ADDRESS ISSN: 0169-409X

Publisher Item Identifier: S0169409X09000039

DOI: 10.1016/j.addr.2008.12.008

Document Type: Review, Journal Record Type: Abstract

Language: English Summary Language: English

Number of References: 205

Corresp. Author/Affil: Krieg, A.M.: Pfizer Inc., 620 Memorial Drive, Cambridge, MA 02139, United States

2/3, K/4 (Item 2 from file: 8)
DIALOG(R) File 8: EI Compendex(R)
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0017639259 E.I. COMPENDEX No: 20071110490747

Toll-free vaccines?

Krieg, Arthur M

10644052cpgA.txt
Corresp. Author / Affil: Krieg, A. M : Col ey Ph ar maceuti cal G roup,
Inc., 93 Worcester Street, Wellesley, MA 02481, United States
Corresp. Author email: akrieg@coleypharma.com
Nature Biotechnology (Nat. Biotechnol.) (United States) 2007, 25/3
(303-305)

Publication Date: 20070321
Publisher: Nature Publishing Group
CODEN: NABIF ISSN: 1087-0156 el ISSN: 1546-1696
Publisher Item Identifier: NBT0307303
DOI: 10.1038/nbt0307-303
Document Type: Short Survey; Journal Record Type: Abstract
Treatment: T; (Theoretical)
Language: English Summary Language: English
Number of References: 11

Corresp. Author / Affil: Krieg, A. M : Col ey Ph ar maceuti cal G roup,
Inc., 93 Worcester Street, Wellesley, MA 02481, United States

2/3, K/5 (Item 1 from file: 149)
DIALOG(R) File 149: TGG Health & Wellness DB(SM)
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03942337 SUPPLIER NUMBER: 190749591
Toll-like receptor 9 (TLR9) agonists in the treatment of cancer. (Clinical report)
Krieg, A. M
Oncogene, 27, 2, 161(7)
Jan 7,
2008
DOCUMENT TYPE: Clinical report PUBLICATION FORMAT: Magazine/Journal
ISSN: 0950-9232 LANGUAGE: English RECORD TYPE: Citation
TARGET AUDIENCE: Academic

Krieg, A. M
? e au=krieg, a?

Ref	Items	Index-term
E1	5	AU=KRI EG, A. H.
E2	7	AU=KRI EG, A. M
E3	0	* AU=KRI EG, A?
E4	5	AU=KRI EG, ADAM J
E5	11	AU=KRI EG, ADAM J.
E6	2	AU=KRI EG, ADAM JEREMY
E7	1	AU=KRI EG, ADRIAN
E8	2	AU=KRI EG, ADRIAN H
E9	2	AU=KRI EG, AF
E10	3	AU=KRI EG, AH
E11	1	AU=KRI EG, AJ
E12	18	AU=KRI EG, ALEXANDER

Enter P or PAGE for more
? page

Ref	Items	Index-term
E13	1	AU=KRI EG, ALEXYS R
E14	1	AU=KRI EG, ALEXYS R.
E15	1	AU=KRI EG, ALOYS
E16	7	AU=KRI EG, ALOYSIUS
E17	143	AU=KRI EG, AM
E18	15	AU=KRI EG, AM*
E19	25	AU=KRI EG, ANDREAS
E20	1	AU=KRI EG, ANDREAS H.

10644052cpgA.txt

E21 1 AU=KRI EG, ANJA
 E22 1 AU=KRI EG, ARI BERT
 E23 7 AU=KRI EG, ARTHUR
 E24 1 AU=KRI EG, ARTHUR F

Enter P or PAGE for more

? s e23-24
 >>>Term "24" is invalid position
 ? s e23-e24

7 AU=KRI EG, ARTHUR
 1 AU=KRI EG, ARTHUR F
 S3 8 E23-E24

? rd

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S4 8 RD (unique items)
 ? s s4 and t cgt cgt tttgt cgt tttttt cga
 8 S4
 2 TCGTCGTTTGTCTTTTTCGA
 S5 0 S4 AND TCGTCGTTTGTCTTTTTCGA
 ? e au=krieg, arthur

Ref	Items	Index-term
E1	1	AU=KRI EG, ANJA
E2	1	AU=KRI EG, ARI BERT
E3	7	* AU=KRI EG, ARTHUR
E4	1	AU=KRI EG, ARTHUR F
E5	11	AU=KRI EG, ARTHUR F.
E6	67	AU=KRI EG, ARTHUR M
E7	253	AU=KRI EG, ARTHUR M
E8	2	AU=KRI EG, B
E9	256	AU=KRI EG, B.
E10	4	AU=KRI EG, B. L.
E11	8	AU=KRI EG, B. L.
E12	1	AU=KRI EG, B. L. (PACIFIC GAS AND ELECTRIC CO., SAN

Enter P or PAGE for more

? s e4-e7
 1 AU=KRI EG, ARTHUR F
 11 AU=KRI EG, ARTHUR F.
 67 AU=KRI EG, ARTHUR M
 253 AU=KRI EG, ARTHUR M
 S6 332 E4-E7

? s s6 and (t cgt cgt tttgt cgt tttttt cga)
 332 S6
 2 TCGTCGTTTGTCTTTTTCGA
 S7 0 S6 AND (TCGTCGTTTGTCTTTTTCGA)

? s s6 and (?t cgt cgt tttgt cgt tttttt cga?)

Processed 10 of 50 files ...

Processed 20 of 50 files ...

Processed 30 of 50 files ...

Processed 40 of 50 files ...

Processed 50 of 50 files ...

Completed processing all files

332 S6
 0 ?TCGTCGTTTGTCTTTTTCGA?
 S8 0 S6 AND (?TCGTCGTTTGTCTTTTTCGA?)

?

? ds

10644052cpgA.txt

Set Items Description
S1 7 AU=' KRI EG A. M '
S2 5 RD (unique items)
S3 8 E23- E24
S4 8 RD (unique items)
S5 0 S4 AND TCGTCGTTTGTCTGTTTTTCGA
S6 332 E4- E7
S7 0 S6 AND (TCGTCGTTTGTCTGTTTTTCGA)
S8 0 S6 AND (?TCGTCGTTTGTCTGTTTTTCGA?)
? ds

Set Items Description
S1 7 AU=' KRI EG A. M '
S2 5 RD (unique items)
S3 8 E23- E24
S4 8 RD (unique items)
S5 0 S4 AND TCGTCGTTTGTCTGTTTTTCGA
S6 332 E4- E7
S7 0 S6 AND (TCGTCGTTTGTCTGTTTTTCGA)
S8 0 S6 AND (?TCGTCGTTTGTCTGTTTTTCGA?)
? s TCGTCGTTTGTCTGTTTTTCGA
S9 2 TCGTCGTTTGTCTGTTTTTCGA
? s TCGTCGTTTGTCTGTTTTTCGA
S10 2 TCGTCGTTTGTCTGTTTTTCGA
? rd

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S11 2 RD (unique items)

? t s11/3, k/1-2

>>>KWC option is not available in file(s): 399

11/3, K/1 (Item 1 from file: 357)

DIALOG(R) File 357: Derwent Biotech Res.

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0354257 DBR Accession No.: 2004-26549 PATENT

Identifying agonists of Toll-like receptor (TLR) signalling activity, useful therapeutically or prophylactically, comprises contacting an RPM 8226 cell that expresses a TLR with a test compound and measuring TLR signalling activity - toll-like receptor and antagonist and agonist for use in disease therapy

AUTHOR: VOLLMER J; JURK M; LI PFORD G B; SCHETTER C; FORSBACH A; KRI EG A M

PATENT ASSIGNEE: COLEY PHARM GMBH; COLEY PHARM GROUP INC 2004

PATENT NUMBER: WO 200494671 PATENT DATE: 20041104 WPI ACCESSION NO.: 2004-795573 (200478)

PRIORITY APPLICATION NO.: US 464588 APPLICATION DATE: 20030422

NATIONAL APPLICATION NO.: WO 2004US12788 APPLICATION DATE: 20040422

LANGUAGE: English

... ABSTRACT: base sequence TCGTCGTTTGTCTGTTTTGTCTT (SEQ ID NO: 1), 5' - TCGTCGTTTGTACGTTTGTCTT-3' (SEQ ID NO: 139), 5' - TCGTCGTTTGTCTGTTTTTCGA -3' (SEQ ID NO: 140), 5' - TCGTCGTTTGTCTGTTCGTCTT-3' (SEQ DD NO: 141), 5' - TCGTCGTTTGTCTGTTTGCTT-3...

11/3, K/2 (Item 2 from file: 357)

10644052cpgA.txt
DI ALCG(R) File 357: Derwent Biotech Res.
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0351655 DBR Accession No.: 2004-23947 PATENT
Inducing immune response in subject useful for preventing and/or treating
viral infection e.g., human papilloma virus infection, involves
topically administering oil-in-water emulsion and immunostimulatory
nucleic acid, to subject - CpG immunostimulant oligonucleotide transfer
and expression in host cell for nucleic acid vaccine and gene therapy

AUTHOR: DAVIS H L; MCCLUSKIE M J

PATENT ASSIGNEE: COLEY PHARM GROUP LTD 2004

PATENT NUMBER: WO 200487203 PATENT DATE: 20041014 WPI ACCESSION NO.:
2004-737575 (200472)

PRIORITY APPLICATION NO.: US 461903 APPLICATION DATE: 20030410

NATIONAL APPLICATION NO.: WO 20041B1371 APPLICATION DATE: 20040401

LANGUAGE: English

... ABSTRACT: has the nucleotide sequence of 5' - t cgt ct ttt gt cgt tt gt cg tt - 3',
5' - t cgt cgt tt cgt cgt t tcgt cgt t - 3', 5' - t cgt cgt tt t cgg t cgt tt - 3', 5' -
t cgt cgt tt gt cgt tttt cga - 3', 5' - t cgt cgt tt t cgt gcg tttt - 3', or
5' - t cgt cgt tt gt cgt tt gt cgt tt - 3'. The immunostimulatory nucleic acid is a
class...

? ds

Set	Items	Description
S1	7	AU=' KREI EG A.M'
S2	5	RD (unique items)
S3	8	E23-E24
S4	8	RD (unique items)
S5	0	S4 AND TCGTCGTTTGTCTGGTTTTTCGA
S6	332	E4-E7
S7	0	S6 AND (TCGTCGTTTGTCTGGTTTTTCGA)
S8	0	S6 AND (?TCGTCGTTTGTCTGGTTTTTCGA?)
S9	2	TCGTCGTTTGTCTGGTTTTTCGA
S10	2	TCGTCGTTTGTCTGGTTTTTCGA
S11	2	RD (unique items)

BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG